

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. R5-2005-0839
FOR

MENCARINI AND JARWIN, INC. dba CHROME CRAFT
FORMER CHROME CRAFT FACILITY
ENHANCED BIOREMEDIATION PILOT STUDY
SACRAMENTO COUNTY

This revised Monitoring and Reporting Program (MRP) incorporates requirements for monitoring the progress of the enhanced bioremediation pilot study. This MRP is issued pursuant to California Water Code Section 13267. Mencarini and Jarwin, Inc. (Discharger) is required to comply with this MRP. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Executive Officer, or until Waste Discharge Requirements No. R5-2004-0016 (WDRs) are rescinded. Groundwater sampling and reporting as directed by Sacramento County Environmental Management Department are required. The enhanced bioremediation pilot study entailed injecting Metal Remediation Compound (MRCTM) in groundwater in the source area in April 2004. The WDRs specify monitoring until geochemical parameters return to pre-pilot study conditions. The Discharger has demonstrated that all parameters except dissolved methane have returned to pre-pilot conditions, and this revised MRP is specific for this parameter. When methane returns to baseline conditions, which is reflected in the upgradient monitoring wells, the Discharger may reduce the monitoring frequency to annually until such time as the WDRs are rescinded.

All samples shall be representative of the volume and the nature of the discharge and matrix of the sampled medium. The time, date, and location of each grab sample shall be recorded on the sample chain of custody form.

ENHANCED BIOREMEDIATION PILOT STUDY MONITORING

As shown on Attachment B, there are seven monitoring wells (CC-1-A, CC-2, CC-3, CC-4, CC-5, CC-6, and CC-7) associated with this site. Only monitoring wells CC-4, CC-5, CC-1-A and CC-7 are subject to this monitoring and reporting program. The groundwater monitoring program for these four wells and any other wells installed for the express purpose of monitoring this April 2004 pilot study shall follow the schedule below. Sample collection and analysis shall follow standard EPA protocol, and analyses shall be completed by a State certified laboratory. Monitoring well samples shall be analyzed for the following constituents and parameters in accordance with the following tables:

Table of Constituents and Methods

Constituents	Analytical Method	Practical Quantitation Limit ¹	Monitoring Frequency
Depth to Groundwater	---	0.01 ft	Quarterly ²
Methane (dissolved)	RSK 175M or ASTM D1945	1 µg/l	Quarterly ²

¹ For nondetectable results. All concentrations between the Method Detection Limit and the Practical Quantitation Limit shall be reported as trace.

² When methane concentrations in either CC-1-A or CC-7 are less than or equal to the concentrations in upgradient wells CC-4 or CC-5, then the monitoring frequency for that well may be reduced to annually in the fourth quarter (October-December).

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REPORTING

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type, and reported analytical result for each sample are readily discernible. The data shall be summarized in such a manner to clearly illustrate compliance with waste discharge requirements and spatial or temporal trends, as applicable. The results of any monitoring done more frequently than required at the locations specified in the MRP shall also be reported to the Regional Board.

As required by the California Business and Professions Code Sections 6735, 7835, and 7835.1, all Groundwater Monitoring Reports shall be prepared under the direct supervision of a Registered Engineer or Geologist and signed by the registered professional.

B. Quarterly Monitoring Reports

Quarterly reports shall be submitted to the Board by the **1st day of the second month following the end of each calendar quarter (i.e., by 1 February, 1 May, 1 August, and 1 November)**. If the Discharger is also preparing a quarterly monitoring report for Sacramento County Environmental Management Department (SCEMD) that includes the information required in this MRP, the Discharger may submit this report to the Board in lieu of a separate report. At a minimum, the reports shall include:

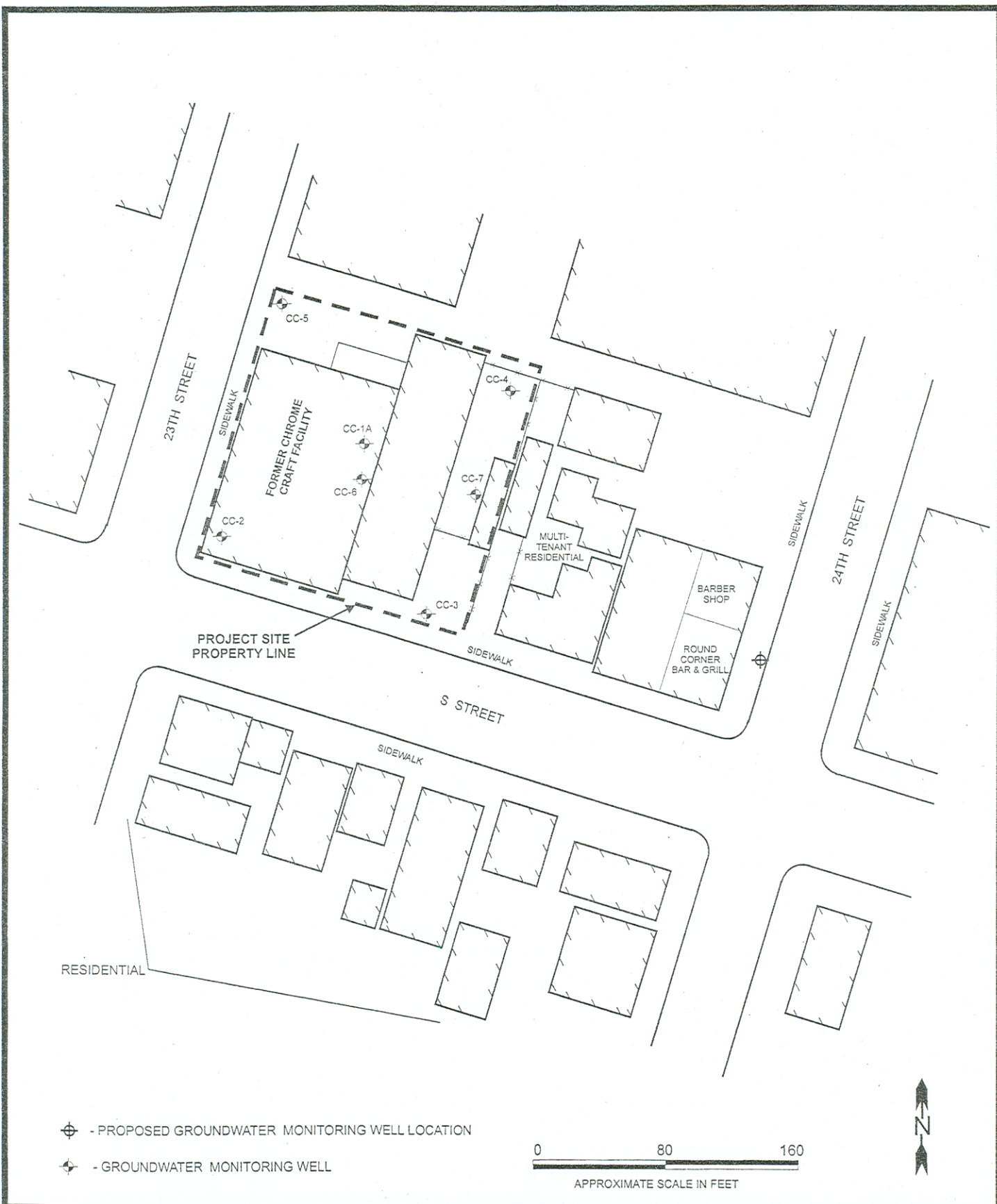
1. A narrative description of all preparatory, monitoring, sampling, and analytical testing activities for the groundwater monitoring. The narrative shall be sufficiently detailed to verify compliance or lack thereof with the waste discharge requirements, this MRP, and the Standard Provisions and Reporting Requirements. The narrative shall be supported by field logs for each well documenting depth to groundwater; parameters measured before, during, and after purging; calculation of casing volume; total volume of water purged, etc.
2. Groundwater contour maps for all groundwater zones, if applicable.

3. A table showing well construction details such as well number, groundwater zone being monitored, coordinates (longitude and latitude), ground surface elevation, reference elevation, elevation of screen, elevation of bentonite, elevation of filter pack, and elevation of well bottom.
4. Copies of all laboratory analytical report(s) not previously transmitted.
5. Cumulative data tables containing the water quality analytical results and depth to groundwater.

The Discharger shall implement the above monitoring program as of the date of the Order.

Ordered by: _____
THOMAS R. PINKOS, Executive Officer

(Date)



DESIGNED BY:

CHECKED BY:

SITE PLAN

DATE: 06/30/05

FIGURE: 1

DRAWN BY: MR

SCALE:

PROJECT NO: 270-01-01

FORMER CHROME CRAFT FACILITY
SACRAMENTO, CALIFORNIA

GRIBI Associates